

# **REQUEST FOR ENGINEERING SERVICES**

**OCTOBER 2014**

**AGENCY:** Department of Health Services

**DHS CONTACT:** Mark Zaccagnino, (608) 266-2902, mark.zaccagnino@wisconsin.gov

**LOCATION:** Mendota Mental Health Institute, Madison, Dane County

## **PROJECT REQUEST:**

Request release of \$90,000 Agency Cash – Planning to prepare a site and archeological survey, preliminary plans and a design report for a Fiber Optic Network Upgrade project at the Mendota Mental Health Institute. The selected A/E will be responsible for the above items plus final design, bidding documents and construction administration.

**PROJECT NUMBER:** 14I3C

## **PROJECT DESCRIPTION**

This project will upgrade the fiber optic communications network to select buildings at Mendota Mental Health Institute (MMHI). Construction includes the installation of single mode fiber optic cable between buildings and new underground conduits or duct banks in select areas. Telecommunication Room utilities will be upgraded at each building as required to accommodate the new cable system and network electronics

The underground utility distribution system is complex. There are extensive underground utilities throughout the facility including direct buried cable and cabling in concrete duct bank. Some utilities pass near archeologically sensitive sites. The A/E firm for this project must have experience in assessing existing utilities and in performing surveys with utility locates in order to determine the best cable paths.

## **PROJECT JUSTIFICATION:**

This project is required to bring the existing communications network to a standard utilized by other health care facilities, improving patient care and services.

Due to the current volume of network traffic, the existing fiber optic system does not always perform adequately. Applications continue to operate at higher speeds and migrate from copper wire and multimode fiber optic cable to single mode fiber optic cable. The installation of single mode fiber optic cable between the buildings will improve performance of the existing network and provide the necessary capacity and higher transmission rates as required by DHS applications. These applications include video surveillance, telephone, paging and intercom systems, fire alarm systems, digital radios, security controls, and electronic health records.

**BUDGET/SCHEDULE:**

Construction	\$
Design	\$
DFD Mgt	\$
Contingency	\$
Equipment	\$
Other Fees	\$
<b>TOTAL</b>	<b>\$2,272,300</b>

SBC Approval	May 2015
A/E Selection	Oct 2014
Design Report	Apr 2015
Bid Opening	Oct 2015
Start Construction	Nov 2015
Substantial Completion	Sep 2016
Final Completion	Feb 2017

**PREVIOUS ACTION:**

None